**Staphylococcus aureus, Strain A970627**

**Catalog No. NR-45989**

**For research use only. Not for human use.**

**Contributor:**
Jerome Etienne, M.D., Deputy Director, National Reference Centre for Staphylococci, Lyon, France

**Manufacturer:**
BEI Resources

**Product Description:**

**Bacteria Classification:** Staphylococcaceae, Staphylococcus

**Species:** Staphylococcus aureus

**Strain:** A970627

**NARSA Catalog Number:** NRS190

**Original Source:** Staphylococcus aureus (S. aureus), strain A970627 was isolated in 1997 from a wound of a 3-year-old male with suppurative arthritis in France.  

**Comments:** S. aureus, strain A970627 is a methicillin-sensitive S. aureus (MSSA) strain. S. aureus, strain A970627 was deposited as negative for mec; positive for the staphylococcal enterotoxin gene sed; the hemolysin genes hla, hld and hlgv and the leukocidin genes lukD and lukE; MLST sequencing type (ST) 12; eGenomic spa type 141; eGenomic spa repeats UUFQPLM; Ridom spa type t160; agr group II.  

Note: Methicillin is no longer clinically used, however, the terms methicillin-resistant S. aureus (MRSA) and methicillin-sensitive S. aureus (MSSA) continue to be used to describe the susceptibility of S. aureus strains to the penicillins.

**S. aureus** is a Gram-positive, cluster-forming coccus that normally inhabits human nasal passages, skin and mucus membranes. It is also a human pathogen and causes a variety of pus-forming infections as well as food-poisoning and toxic shock syndrome. In 1961, two years after the introduction of methicillin, a penicillinase-resistant penicillin, S. aureus developed methicillin-resistance due to acquisition of the mecA gene. Subsequently, MRSA infections have become widespread in both hospital and community settings. As compared to MSSA infections, MRSA infections tend to have more complications such as a higher recurrence rate and higher mortality.

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol.

**Note:** If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**

NR-45989 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

**Growth Conditions:**

**Media:**
Brain Heart Infusion broth or Tryptic Soy broth or equivalent
Brain Heart Infusion agar or Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

**Incubation:**

Temperature: 37°C
Atmosphere: Aerobic

**Propagation:**

1. Keep vial frozen until ready for use, then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tube, slant and/or plate at 37°C for 18 to 24 hours.

**Citation:**

Acknowledgment for publications should read “The following reagent was provided by the Network on Antimicrobial Resistance in Staphylococcus aureus (NARSA) for distribution by BEI Resources, NIAID, NIH: Staphylococcus aureus, Strain A970627, NR-45989.”

**Biosafety Level:** 2


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References:
1. NARSA, NRS190

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